

IN THE CLAIMS:

The following listing reflects the current version of all claims, and replaces all earlier versions and listings:

Claim 1. (Currently Amended) A description document for a service offered by a server (S) in a communication network (10), comprising:

 a first abstract part adapted to describe at least one message exchanged over the communication network (10) when said the service is implemented;
 and a second concrete part adapted to describe the information relating to the transmission of said the messages over the communication network,
characterized in that it comprises, in
 wherein said first abstract part comprises[[,]] a description of abstract constraints associated with a binary multimedia document.

Claim 2. (Currently Amended) A service description document according to claim 1, characterized in that said description of abstract constraints is represented using the semantics of a description language of a content of a binary multimedia document.

Claim 3. (Original) A service description document according to one of Claims 1 to 2, characterized in that said description of abstract constraints is represented using the semantics defined by the MPEG7 standard.

Claim 4. (Currently Amended) A service description document according to one of Claims 1 to [[3]] 2, characterized in that said description of abstract constraints is represented in a mark-up language of the XML type.

Claim 5. (Currently Amended) A service description document according to one of Claims 1 to [[4]] 2, characterized in that said description of abstract constraints is represented in a schema language such as XML-Schema or Relax-NG, tags being defined using the semantics of the MPEG7 standard.

Claim 6. (Currently Amended) A service description document according to one of Claims 1 to [[4]] 2, characterized in that said description of abstract constraints is represented in a description language of a content of the multimedia document, said tags being adapted to integrate directly or by reference attributes represented in a schema mark-up language such as XML-Schema.

Claim 7. (Currently Amended) A service description document in accordance with Claim 6, characterized in that the description language of a content of [[a]] the multimedia document is defined according to the MPEG7 standard.

Claim 8. (Currently Amended) A service description document according to one of Claims 1 to [[4]] 2, characterized in that said description of abstract constraints is represented in a schema language such as Schematron adapted to define a set of minimum

constraints.

Claim 9. (Currently Amended) A service description document according to one of Claims 1, 2 and 7 to 8, characterized in that said description of abstract constraints is inserted in a sub-part of said first abstract part adapted to describe an abstract structure of the messages exchanged.

Claim 10. (Original) A service description document according to Claim 9, characterized in that said first abstract part comprises a second sub-part adapted to declare at least one elementary message pointing to said description of abstract constraints.

Claim 11. (Original) A service description document according to Claim 10, characterized in that said elementary message is associated with an attribute adapted to specify that the message comprises a binary multimedia content type.

Claim 12. (Currently Amended) A method of producing a request for a service offered by a server (S) in a communication network (10), said the service being described in a service description document according to one of Claims ~~1 to 11~~ 1, 2, 7, 10 and 11, characterized in that it comprises the following steps:

- reading (E20) said the description document of a service;

- selecting (E21) a first abstract part adapted to describe at least one message exchanged over the communication network when an operation associated with said the service is implemented;
- extracting (E22) a description of abstract constraints associated with a binary multimedia document;
- selecting (E23) a binary multimedia document according to said the description of abstract constraints; and
- producing (E26) a request intended for the server in the communication network including said the binary multimedia document selected.

Claim 13. (Currently Amended) A method of validating a multimedia document when a service offered by a server (S) in a communication network (10) is implemented, the service being associated with a service description document, characterized in that it comprises the following steps:

- acquiring (E10) the multimedia document;
- extracting (E11) a description of abstract constraints associated with a binary multimedia document from said the description document of a service;
- extracting (E12) a content description associated with said the multimedia document; and
- comparing (E13) said the content description and the description of abstract constraints extracted from the service description document.

Claim 14. (Currently Amended) A method of validating according to Claim 13, characterized in that said the description of abstract constraints is represented in a language describing a content of a multimedia document.

Claim 15. (Original) A method of validating according to one of Claims 13 or 14, characterized in that the language describing a content of the multimedia document is defined under the MPEG7 standard.

Claim 16. (Currently Amended) A method of validating according to one of Claims 13 to [[15]] 14, characterized in that, at the said extraction step (E12), an MPEG7 description of the multimedia document inserted in said the multimedia document is extracted.

Claim 17. (Currently Amended) A method of validating according to one of Claims 13 to [[16]] 14, characterized in that it is implemented during a step (E23) of selecting a multimedia document to be inserted in message exchanged during the implementation of a service offered by a server in the communication network.

Claim 18. (Currently Amended) A method of validating according to one of Claims 13 to [[16]] 14, characterized in that it is implemented during a step (E31) of validating a request received by a server in a communication network for implementing a service described in a service description document.

Claim 19. (Currently Amended) A device for producing a request for a service offered by a server in a communication network, ~~said the~~ service being described in a service description document in accordance with one of Claims ~~1 to 11~~ 1, 2, 7, 10 and 11, characterized in that it comprises:

- means ~~(100, 101, 102)~~ for reading said description document of a service;

- means ~~(100, 101, 102)~~ for selecting a first abstract part adapted to describe at least one message exchanged over the communication network when an operation associated with ~~said the~~ service is implemented;

- means ~~(100, 101, 102)~~ for extracting a description of abstract constraints associated with a binary multimedia document;

- means ~~(100, 101, 102)~~ for selecting a binary multimedia document according to ~~said the~~ description of abstract constraints; and

- means ~~(100, 101, 102)~~ for producing a request intended for the server in the communication network including ~~said the~~ binary multimedia document selected.

Claim 20. (Currently Amended) A device for producing a request for a service in accordance with Claim 19, characterized in that it is incorporated in:

- a microprocessor ~~(100)~~;
- a read only memory ~~(101)~~ adapted to store a program for producing a request for a service; and

- a random access memory (102) comprising registers adapted to store the variables modified during the running of said the program.

Claim 21. (Currently Amended) A device for validating a multimedia document during the implementation of a service offered by a server in a communication network, the service being associated with a service description document, characterized in that it comprises:

- means (100, 101, 102) for acquiring the multimedia document;
- means (100, 101, 102) for extracting a description of abstract constraints associated with [[a]] the binary multimedia document from the description document of a service;
- means (100, 101, 102) for extracting a content description associated with said the multimedia document; and
- means (100, 101, 102) for comparing said the content description and the description of abstract constraints extracted from the service description document.

Claim 22. (Currently Amended) A device for validating a multimedia document according to Claim 21, characterized in that it is incorporated in:

- a microprocessor (100);
- a read only memory (101) adapted to store a program validating a multimedia document; and

- a random access memory (102) comprising registers adapted to store variables modified during the running of ~~said~~ the program.

Claim 23. (Currently Amended) A server computer in a communication network, characterized in that it comprises means adapted to implement the validation method according to one of Claims 13 to [[18]] 14.

Claim 24. (Currently Amended) A client computer in a communication network, characterized in that it comprises means adapted to implement the validation method according to one of Claims 13 to [[18]] 14.

Claim 25. (Original) A client computer in a communication network, characterized in that it comprises means adapted to implement the method of producing a request in accordance with Claim 12.

Claim 26. (Currently Amended) A communication network, characterized in that it comprises means adapted to implement the validation method according to one of Claims 13 to [[18]] 14.

Claim 27. (Original) A communication network, characterized in that it comprises means adapted to implement the method of producing a request in accordance with Claim 12.

Claim 28. (Currently Amended) An information storage means, possibly totally or partially removable, which can be read by a computer system, comprising instructions for a computer program adapted to implement the method of validating a multimedia document in accordance with one of Claims 13 to [[18]] 14, when this program is loaded in and run by the computer system.

Claim 29. (Original) An information storage means, possibly totally or partially removable, which can be read by a computer system, comprising instructions for a computer program adapted to implement the method of producing a request according to Claim 12, when this program is loaded in and run by the computer system.

Claim 30. (Currently Amended) A computer program which can be read by a microprocessor, comprising portions of software code adapted to implement the method of validating a multimedia document according to one of Claims 13 to [[18]] 14, when this computer program is loaded in and run by the microprocessor.

Claim 31. (Original) A computer program which can be read by a microprocessor, comprising portions of software code adapted to implement the method of producing a multimedia document according to Claim 12, when this computer program is loaded in and run by the microprocessor.